

2AZ-FE COOLING

SERVICE DATA

THERMOSTAT

Condition	Specified Condition
Standard valve opening temperature	80 to 84 °C (176 to 183 °F)
Standard valve lift	10 mm (0.39 in.) or more at 95 °C (203 °F)

COOLING FAN MOTOR

Item	Indication Mark	Motor Type	Condition	Specified Condition
No. 1 cooling fan motor	B, C	160 W	at 20°C (68 °F)	11.7 to 14.7 A
No. 2 cooling fan motor	B	120 W	at 20°C (68 °F)	8.4 to 10.4 A
	C	160 W	at 20°C (68 °F)	11.7 to 14.7 A

COOLING FAN RELAY

Item	Tester Connection	Specified Condition
No. 1 fan relay	3 - 5	10 Ω or higher
	3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)
No. 2 fan relay	3 - 4	Below 1 Ω
	3 - 5	10 Ω or higher
	3 - 4	10 Ω or higher (when battery voltage is applied to terminals 1 and 2)
	3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)
No. 3 fan relay	3 - 5	10 Ω or higher
	3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

RADIATOR

Item	Condition	Specified Condition
Radiator reservoir cap	For brand-new cap	93.3 to 122.7 kPa (0.95 to 1.25 kgf/cm ² , 13.5 to 17.8 psi)
	After using cap	78.5 kPa (0.8 kgf/cm ² , 11.4 psi)

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TORQUE SPECIFICATIONS

COOLANT

Part Tightened	N*m	kgf*cm	ft.*lbf
Cylinder block drain cock plug x Cylinder block	12.7	130	10

WATER PUMP

Part Tightened	N*m	kgf*cm	ft.*lbf
Water pump x Cylinder block	9.0	92	80 in.*lbf
Water pump pulley x Water pump	26	265	19

THERMOSTAT

Part Tightened	N*m	kgf*cm	ft.*lbf
Water inlet x Cylinder block	9.0	92	80 in.*lbf

COOLING FAN MOTOR

Part Tightened	N*m	kgf*cm	ft.*lbf
No. 1 and No. 2 cooling fan motor x Fan shroud	3.9	40	35 in.*lbf
Fan x No. 1 and No. 2 cooling fan motor	6.3	64	55 in.*lbf

RADIATOR

Part Tightened		N*m	kgf*cm	ft.*lbf
Fan shroud with cooling fan x Radiator		10.5	107	8
Upper radiator support x Radiator support LH and RH		29	296	21
No. 2 fan shroud x Radiator		10.5	107	8
Upper radiator support bracket x Upper radiator support		19	194	14
No. 1 water by-pass pipe x Upper radiator support		9.0	92	80 in.*lbf
Battery clamp x Upper radiator support	Bolt	8.5	87	75 in.*lbf
Battery clamp x Battery clamp bolt	Nut	5.0	51	44 in.*lbf